

CLAIMS

1. A torque meter, comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

a torque detection arrangement detecting the torque based on deformation of the elastic member, the torque detection arrangement includes:

a torque member receiving the torque applied to the elastic member; and

a load member arranged separate from the torque member, the load member supporting a load of the elastic member,

wherein the elastic member is a flange-type member,

wherein the torque member and the load member are thin parts formed of the elastic member,

wherein the torque member has a direction of a surface of the thin part positioned parallel to a direction of torque, and

wherein the load member has a direction of a thickness of the thin part positioned parallel to the direction of torque.

2. A torque meter, comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

a torque detection arrangement detecting the torque based on deformation of the elastic member, the torque detection arrangement includes:

a torque member receiving the torque applied to the elastic member; and

a load member arranged separate from the torque member, the load member supporting a load of the elastic member; and

wherein the elastic member is a torsion-bar-type member,

wherein the torque member is a small-diameter shaft part,

and

wherein the load member is a thin part formed in a radial direction of the small-diameter shaft part and having a direction of a surface positioned in a direction of a torsional moment.

3. A torque meter, comprising:

an elastic member arranged in a power transmission channel and deforming in response to a torque to be measured; and

a torque detection arrangement detecting the torque based on deformation of the elastic member, the torque detection

arrangement includes:

a torque member receiving the torque applied to the elastic member; and

a load member arranged separate from the torque member, the load member supporting a load of the elastic member; and

wherein the elastic member is a cylindrical member,

wherein the torque member is a thin part arranged in a circular-arc direction, and

wherein the load member is a thin part arranged in a radial direction.

4. The torque meter according to claim 1, wherein the torque detection arrangement is mounted to at least one of the torque member and the load member.

5. The torque meter according to claim 1, wherein the torque detection arrangement is uses at least two types of torque detection arrangements.

6. The torque meter according to claim 2, wherein the torque detection arrangement is mounted to at least one of the torque

member and the load member.

7. The torque meter according to claim 3, wherein the torque detection arrangement is mounted to at least one of the torque member and the load member.

8. The torque meter according to claim 2, wherein the torque detection arrangement uses at least two types of torque detection arrangements.

9. The torque meter according to claim 3, wherein the torque detection arrangements uses at least two types of torque detection arrangements.

10. The torque meter according to claim 4, wherein the torque detection arrangement uses at least two types of torque detection arrangements.